TSD File Inventory Index

Date: March 23, 2004 Initial: Myere Vao

Facility Name: Albert Fraisting	120	. (One Folder Site)	
Facility Identification Number:	PS 89	90844	
A.1 General Correspondence		B.2 Permit Docket (B.1.2)	and the second
A.2 Part A / Interim Status	, comment	.1 Correspondence	
.1 Correspondence	Ĭ,	.2 All Other Permitting Documents (Not Part of the ARA)	-
.2 Notification and Acknowledgment	Í	C.1 Compliance - (Inspection Reports)	-
.3 Part A Application and Amendments	Į,	C.2 Compliance/Enforcement	
.4 Financial Insurance (Sudden, Non Sudden)	ļ	.1 Land Disposal Restriction Notifications	1
.5 Change Under Interim Status Requests		.2 Import/Export Notifications	1
.6 Annual and Biennial Reports		C.3 FOIA Exemptions - Non-Releasable Documents	1
A.3 Groundwater Monitoring		D.1 Corrective Action/Facility Assessment	-
.1 Correspondence		.1 RFA Correspondence	
.2 Reports		.2 Background Reports, Supporting Docs and Studies	
.4 Closure/Post Closure		.3 State Prelim. Investigation Memos	-
.1 Correspondence		.4 RFA Reports	
.2 Closure/Post Closure Plans, Certificates, etc		D. 2 Corrective Action/Facility Investigation	-
.5 Ambient Air Monitoring		.1 RFI Correspondence	
.1 Correspondence		.2 RFI Workplan	
.2 Reports		.3 RFI Program Reports and Oversight	_
1 Administrative Record		.4 RFI Draft /Final Teport	
		5. RFI QAPP	

Tetal -1

.6 RFI QAPP Correspondence	.8 Progress Reports
.7 Lab Data, Soil-Sampling/Groundwater	D.5 Corrective Action/Enforcement
.8 RFI Progress Reports	.1 Administrative Record 3008(h) Order
.9 Interim Measures Correspondence	.2 Other Non-AR Documents
.10 Interim Measures Workplan and Reports	D.6 Environmental Indicator Determinations
D.3 Corrective Action/Remediation Study	.1 Forms/Checklists
.1 CMS Carrespondence	E. Boilers and Industrial Furnaces (BIF)
.2 Interim Measures	.1 Correspondence
.3 CMS Workplan	.2 Reports
.4 CMS Draft/Final Report	F Imagery/Special Studies (Videos, photos, disks, maps, blueprints, drawings, and other special materials.)
.5 Stabilization	G.1 Risk Assessment
.6 CMS Progress Reports	.1 Human/Ecological Assessment
.7 Lab Data, Soil-Sampling/Groundwater	.2 Compliance and Enforcement
.4 Corrective Action Remediation Implementation	.3 Enforcement Confidential
1 CMI Correspondence	.4 Ecological - Administrative Record
.2 CMI Workplan	.5 Permitting
.3 CMI Program Reports and Oversight	.6 Corrective Action Remediation Study
.4 CMI Draft/Final Reports	.7 Corrective Action/Remediation Implementation
.5 CMI QAPP	.8 Endangered Species Act
.6 CMI QAPP Correspondence	.9 Environmental Justice
1 Las Data - dois Sampung / Kirandio alle	

nsmittal Letter to Be Included with Reports.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

111 West Jackson Blvd. CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF: RCRA ACTIVITIES

1 0 NOV 1982

Mr. R. W. Corl, Jr.
President
Allied Finishing, Incorporated
4100 Broadmoor Southeast
Grand Rapids, Michigan 49508

2

RE: Withdrawal of Part A
(Wastewater Treatment
Unit)

FACILITY NAME:

Allied Finishing, Incorporated

USFPA ID NO.: MID 085 890 846

Dear Mr. Corl:

This is to acknowledge that the United States Environmental Protection Agency (USEPA) has completed its review of your Part A Hazardous Waste Permit Application and your letter of March 19, 1982, requesting the withdrawal of your permit application. According to the information which you have submitted, your facility has a wastewater treatment unit as defined in 40 CFR Part 260.10. It is the opinion of this office, based on the information submitted, that your facility is not required to have a hazardous waste permit under Section 3005 of the Resource Conservation and Recovery Act at this time. Please be advised that you must still comply with all applicable State and local requirements.

You will retain your USEPA Identification number if you notified as a generator of a hazardous waste.

Please contact the Technical, Permits, and Compliance Section at (312) 353-2197 for assistance if you have any questions. Please refer to "Withdrawal of Part A (Wastewater Treatment Unit)," in all correspondence on this matter.

Sincerely yours,

Karl J. Klepitsch, Jr., Chief

Waste Management Branch

Enclosure

cc: Mr. Michael D. Smith, Lab Technician

Mr. Carl H. Nevendorf

MDNR



March 19, 1982

EPA Region V RCRA Activities P.O. Box 7861 A 35 8 7 Chicago, Illinois 60680 60690

Attention: Mr. Joe Boyle

Dear Sir:

After conferring with Mr. Joe Boyle, Region V headquaters on March 16, 1982, and studying the 40 CFR 265.1 paragraph CIO and 260.10, we have come to the conclusion that our facility, Allied Finishing, Inc. MID085890846, meets the requirments of a waste water treatment unit category, which does not require a permit.

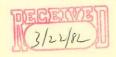
Therefore, we wish to withdraw our hazardous waste permit application submitted on March 2, 1982.

Respectfully yours, Allied Finishing, Inc.

R. W. Corl, Jr President

Michael D. Smith Lab Technician

RWC/ss



RECEIVED

MAR 2.0 1982

WASTE MANAGEMENT BRANCH EPA, REGION V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

111 West Jackson Blvd. CHICAGO. ILLINOIS 60604

REPLY TO ATTENTION OF: RCRA Activities

FEB 09 1982

Michael D. Smith Allied Finishing Inc. 4100 Broadmoor SE Grand Rapids, MI 49508

RE: Hazardous Waste Permit Application-Incomplete Part A Facility Name (and EPA ID number) (MI-D-085-890-846) Facility Address

We have completed our review of your Part A RCRA permit application for the facility referenced above. The application was incomplete; therefore, we are returning it to you along with a checklist which indicates the missing items marked with an "X". Please return the form in time to reach this office by March 9, 1982. The form must be signed by the appropriate certifying official (Item XIII on Form 1 or Item IX and X on Form 3) or his duly authorized representative. All of these items are necessary in order for the U.S. Environmental Protection Agency to determine whether your facility meets the requirements for interim status.

Please feel free to contact David Homer, the reviewer of your application, at (312) 353-2197 or me at (312) 886-7449 if you have any questions or wish to discuss the missing items on the checklist.

Sigcerely yours.

Arthur S. Slawatachi

Regional Project Officer

Enclosure

SENDER:	Complete items 1, 2, and 3. Add your address in the "RETUI reverse.	₹N TO" space on
1. The folio	owing service is requested (check	one.)
☐ Sho	w to whom and date delivered	, , , , , , , , , , , , , , , , , , , ,
☐ Sho	w to whom, date and address of	delivery
□ RES	STRICTED DELIVERY	
Sho	rw to whom and date delivered	
	STRICTED DELIVERY.	
Sho	ow to whom, date, and address of	delivery.\$
(CC	DNSULT POSTMASTER FOR F	EES)
the second secon	LE ADDRESSED TO:	
Michae	el Smith	
4100 F	Broadmoor SE	
	Rapids, MI 49508	
ı aranu		
3. ARTICI	LE DESCRIPTION:	INSIGED NO
	LE DESCRIPTION:	INSURED NO.
3. ARTICI	LE DESCRIPTION:	INSURED NO.
3. ARTICI REGISTER	LE DESCRIPTION: IED NO. CERTIFIED NO. 313668	
3. ARTICI REGISTER	LE DESCRIPTION: IED NO. CERTIFIED NO. 313668	ne or agent)
3. ARTICI REGISTER	LE DESCRIPTION: SED NO. CERTIFIED NO. 313668 ays obtain signature of addressa	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: SED NO. CERTIFIED NO. 313668 ays obtain signature of addressa	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: SED NO. CERTIFIED NO. 313668 ays obtain signature of addressa	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: RED NO CERTIFIED NO. 313668 ays obtain signature of addresse ceived the article described above RE	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: SED NO. CERTIFIED NO. 313668 ays obtain signature of addressa	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: RED NO CERTIFIED NO. 313668 ays obtain signature of addresse ceived the article described above RE	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: IED NO. CERTIFIED NO. 313668 ays obtain signature of addresse Leived the article described above RE DAddresse Dauthorized CO DELIVERY CO DELIVERY	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: RED NO CERTIFIED NO. 313668 ays obtain signature of addresse ceived the article described above RE	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: IED NO. CERTIFIED NO. 313668 ays obtain signature of addresse Leived the article described above RE DAddresse Dauthorized CO DELIVERY CO DELIVERY	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: IED NO. CERTIFIED NO. 313668 ays obtain signature of addresse Leived the article described above RE DAddresse Dauthorized CO DELIVERY CO DELIVERY	e or agent)
3. ARTICI REGISTER	LE DESCRIPTION: IED NO. CERTIFIED NO. 313668 ays obtain signature of addresse Leived the article described above RE DAddresse Dauthorized CO DELIVERY CO DELIVERY	agent POSTMARK CLERK
AATICI REGISTER (Alwa) I have rec signatul ADDR	LE DESCRIPTION: SED NO CERTIFIED NO. 313668 ays obtain signature of addresse cived the article described above RE CAddresse Cauthorized OF DELIVERY ESS (Complete only if requested)	e or agent)

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, and 3 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" edjacent to number.

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE \$300



RETURN TO



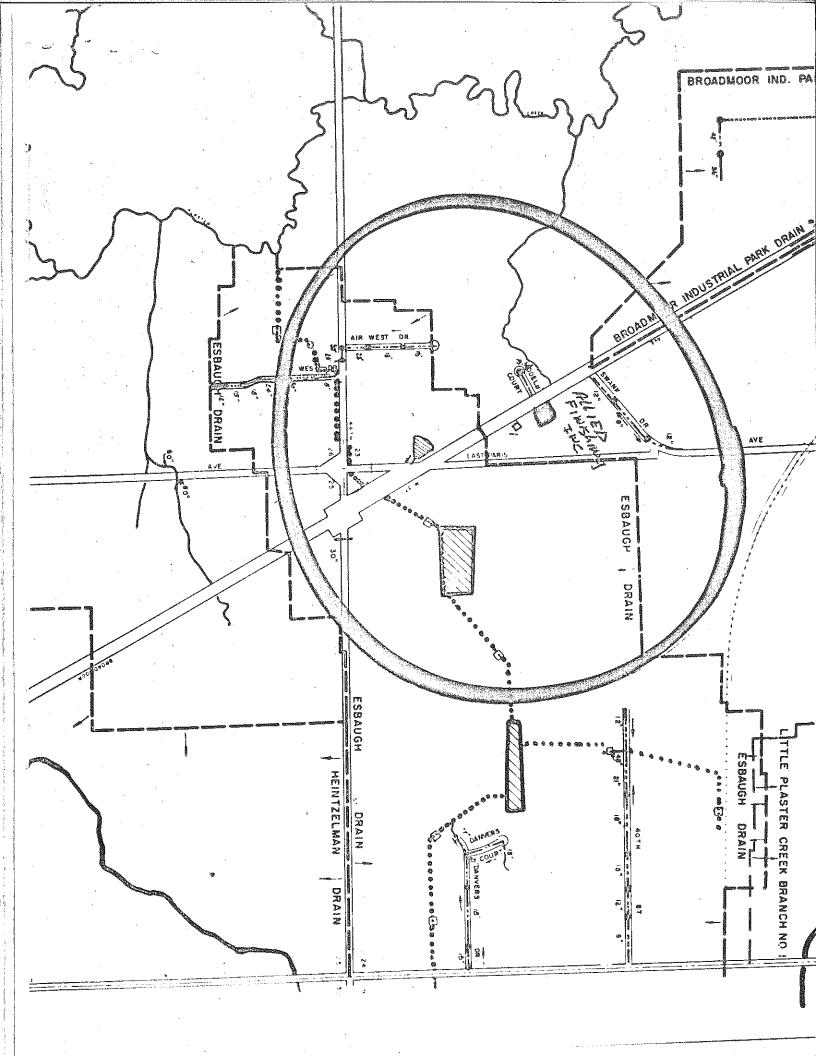
USEPA - Region V - RCRA Activities (Name of Sender)

P.O. Box A3587

(Street or P.O. Box)

Chic-IL 60690-3587 (City, State, and ZIP Code)

CONTINUED FROM THE FRONT				The state of the s
VII. SIC CODES (4-digit, in order of priority)				
A. FIRST			B. SECOND	
7 3 4 7 1 (specify) Plating Slude	7.0	c (specif	ν)	a town
5 16 - 18 C. THIRD		15 16 - 19	D. FOURTH	
(specify)	to analysis	c (specif	על	
III. OPERATOR INFORMATION		15 16 - 19		
MI, OPERATOR INFORMATION	A. NAME			B. Is the name listed in
				Item VIII-A also the owner?
Robert W. Corl, Ji				YES NO
C. STATUS OF OPERATOR (Enter the ap	opropriate letter into the an	swer box; if "Other", specif)	D. PHONE	E (area code & no.)
F = FEDERAL M = PUBLIC (other that S = STATE O = OTHER (specify) P = PRIVATE	n federal or state)	(specify)		6 9 8 7 5 5 0
E, STREET	OR P.O. BOX			
100 BroadmoorS		55		
F. CITY OR TO	wn .		P CODE IX. INDIAN LAND	
Grand Rapids			Is the facility local	ed on Indian lands?
Grand, Rapids,		M,I 4,9	5,0,8 LYES	□ NO
EXISTING ENVIRONMENTAL PERMITS		40 A1 42 47	- 51	
A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissi	ons from Proposed Sources)	Not applicable	under vules us
N	9 P			ge into POTW'S &
16 17 18 -	30 15 16 17 18		30 RCEA'S 90 day e	
B. UIC (Underground Injection of Fluids)	E. OTI	HER (specify)	to 40 CFR262.34	
U	9		(specify)	
C. RCRA (Hazardous Wastes)	30 15 16 17 18 F OT	- HER (specify)	30	
	1 6 7 1 1 1 1		(specify)	
R 3 16 17 18 -	30 15 16 17 18			
(I. MAP				N. C. C. L. C. C.
Attach to this application a topographic name the outline of the facility, the location of treatment, storage, or disposal facilities, a water bodies in the map area. See instruction	each of its existing and each well where it is	l proposed intake and dis njects fluids underground	scharge structures, each of	f its hazardous waste
XII. NATURE OF BUSINESS (provide a brief des	cription)>			
Allied Finishing, Inc. is a	copper nickel.	and chrome plate	r of zinc die cas	tings and
steel stampings on a job sho	ot basis.	and chrome place	L OF ZINC GIE Cas	cings and
		ne meneral		
	ř.			
	AD WELLIE IN		AND THE REAL PROPERTY.	
KIII. CERTIFICATION (see instructions)				
I certify under penalty of law that I have attachments and that, based on my inquapplication, I believe that the information false information, including the possibility	iiry of those persons in is true, accurate and c	nmediately responsible for complete. I am aware tha	or obtaining the informat	ion contained in the
. NAME & OFFICIAL TITLE (type or print)	B. SIGN		Ic	. DATE SIGNED
Robert W. Corl, Jr.		11/18	1	
President	(\$	ellon!	J. L. P. C.	3-2-82
COMMENTS FOR OFFICIAL USE ONLY	THE COURSE OF THE PARTY OF THE	THE RESERVE OF STREET		
5 16			Minne	55
A Form 3510-1 (6-80) REVERSE				



				ype in the unshaded e spaced for elite type		/inch).							Form Approved OMB No. 158-S80004
FC	RIV		0	EDA	HAZARDOL				ROTEC					
D	j		Y	EPA	(This informati	Cons	olidate	d Pen	nits Pro	gram				FMTD085890846
HU	RA	to the last of	FICI	AL USE ONLY									1K	
			ED	(yr., mo., & day)								_	co	MMENTS
		23		24 29										3 000 100
_				REVISED APPLI	The second second second					1		P.		
revi	Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a evised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.													
A.				PLICATION (place STING FACILITY (S		defin								2.NEW FACILITY (Complete item below.) 71 FOR NEW FACILITIES,
8	E	7 P	-	5 8 OPEI	EXISTING FACIL RATION BEGAN C the boxes to the lef	RTH	F PRO	VIDE TE CO	THED	ATE	yr.	m	0., d	& day) YR. MO. DAY (yr., mo., & day) OPERA- TION BEGAN OR IS EXPECTED TO BEGIN
B.	-	_	SED	75 76 [77 78] APPLICATION (p		and c	omple	te Iter	n I abo	ie)	0 0			2. FACILITY HAS A RCRA PERMIT
Ш	PF	10	CES	SES – CODES AN	D DESIGN CAP	ACIT	IES		A PROPERTY.		10			
	ente	erin	g cod	les. If more lines are	needed, enter the c	ode/s) in the	space	e provid	led. I	far	oro	cess	ach process to be used at the facility. Ten lines are provided for swill be used that is not included in the list of codes below, then (I-C).
	describe the process (including its design capacity) in the space provided on the form (Item III-C). 3. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process. 1. AMOUNT — Enter the amount. 2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of													
				used. Only the units	of measure that are	liste	d belo	w show	uld be u					PRO- APPROPRIATE UNITS OF
			DE	ROCESS	PRO- APPROPI CESS MEASUR CODE DESIG	EFC	RPRO	CESS					PR	CESS MEASURE FOR PROCESS ROCESS CODE DESIGN CAPACITY
S	tora	ge:	-	IOCESS	CODE DESIG	114 6/	AL AUI			Trea	tme	ent		TOVEYO GODE DEVISION ON ANTI-
JT	ANI	K	PILE	(barrel, drum, etc.)	S01 GALLONS S02 GALLONS S03 CUBIC YA	OR	LITER			TAN		CE	IMI	T0.1 GALLONS PER DAY OR LITERS PER DAY POUNDMENT T02 GALLONS PER DAY OR
				POUNDMENT	S04 GALLONS	TER:	5	s		INC				LITERS PER DAY
	fill for an	CT		WELL	D79 GALLONS									GALLONS PER HOUR OR LITERS PER HOUR
L	ANI	DF	LL		D80 ACRE-FEE would cove depth of or	rone	acre to		at	ther	mal	or	bioi	for physical, chemical, TOA GALLONS PER DAY OR logical treatment LITERS PER DAY occurring in tanks,
				ICATION POSAL	D81 ACRES OF D82 GALLONS	-MET	ER			ator	3. L)es	crib	ndments or incinere the the processes in ideal; Item III-C.)
				MPOUNDMENT	D83 GALLONS	RD	AY							
					UNIT OF MEASURE									NIT OF UNIT OF MEASURE MEASURE
-				ASURE	CODE	-			SURE					CODE UNIT OF MEASURE CODE
L	ITE	RS		DS	L	TO	NS PE	RHO	UR .					D HECTARE-METERF
G	AL	LO	NS P	ER DAY	U	LI	TERS	PERH	HOUR.					A . H Company of the control of the
				400 gallons. The fac										ity has two storage tanks, one tank can hold 200 gallons and the er hour.
5 C				DUP	T/A C 1	1	1	1		1	\	1	1	
1	2				DESIGN CAPAC	ITY				1 ~	1		1	B. PROCESS DESIGN CAPACITY
BE	(PI					UNIT MEA-	OFF	OR	BEF	C	E	RO- SS DE	2. UNIT OFFICIAL
LINE	(fr		list	1. AM	ount cify)	S	URE enter ode)		NLY	LINE	(fre	om	list (e)	
	15 S	0	2	600		7	28 G	29	- 32	5	16 S	0	18	900 G 27 28 29 - 32
X-2	T	0	3	20)		E			6	S	0	2	1000 G
1	s	0	2	3400			G			7	S	0	2	4200 G
	S	0	2	2250			G			8	S	0	3	15 Y
3	S	0	2	1200			G			9	т	0	1	1500 E
4	S	0		2600		7	G 28	20		10	T	0	120	1500 E
ED	A E	-	18	0-3 (6-80)			201	L 20	PACE	1.0	1 16	-	15	CONTINUE ON REVERSE

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T01	3000	E
T01	3000	E
T01	3000	E
T04	45	G

IV. DESCRIPTION OF HAZARDOUS WASTES

- A. EPA HAZARDOUS WASTE NUMBER Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that weste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non—listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE CODE
POUNDSP	KILOGRAMSK
TONS	METRIC TONS

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste, In column D(2) on that line enter "included with above" and make no other entries on that line.

3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

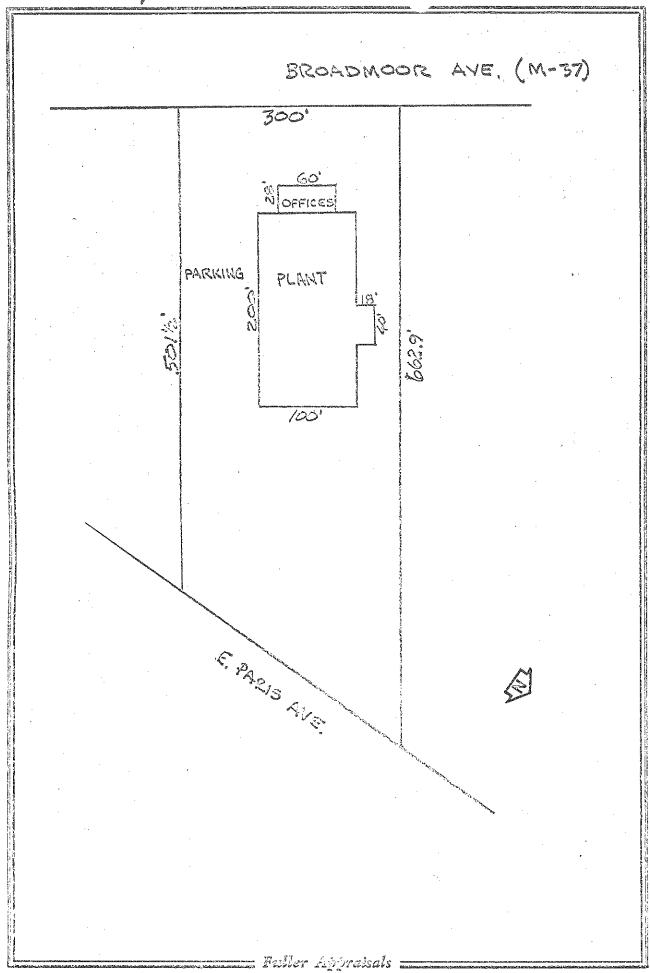
EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

I.F		A. I				C. UNIT			D. PROCESSES											
LINE NO.	W	AZ ASI nter	TEI	O	B. ESTIMATED ANNUAL QUANTITY OF WASTE	5	URE enter ode)	E		1. PROCESS CODES (enter)							ODE	ES		2. PROCESS DESCRIPTION (if a code is not entered in $D(1)$)
ζ-1	K	0	5	4	900		P	T	0	3	D	8	0					one tatola		
-2	D	0	0	2	400		P	T	0	3	D	8	0					- Carl Matinum ness of the		
(-3	D	0	0	1	100		P	T	0	3	D	8	0					9 8 7 1200 E 200 E		
X-4	D	0	0	2			of L					1					1	included with above		

Continued from the front.								
IV. DESCRIPTION OF HAZARDOUS WAST con	tinued)	ES FROM	ITEM D(1)	ON PAGE	3.	EAST II STATE		Service of
(F009) Nitric rack strip solution reclamation facility.	is hau	aled by	licensed	hauler	to a	chemica	al	-(,
				t-				
Ď:								
EPA I.D. NO. (enter from page 1)								
FMID085890846 6								
V. FACILITY DRAWING	1000				1000	W. FLAT		
All existing facilities must include in the space provided on p	page 5 a scal	e drawing of	the facility (se	ee instructio	ons for moi	e detail).		
VI. PHOTOGRAPHS All existing facilities must include photographs (aeria	al or group	d—levell ti	nat clearly de	lineate all	evisting	tructures	existing storag	
treatment and disposal areas; and sites of future stor	age, treatn	nent or disp	posal areas (s	ee instruct	ions for n	nore deta	il).	,
VII. FACILITY GEOGRAPHIC LOCATION	ST. ST. III	The state of		LONGITUDE OF	DE (dagge	in minutes	, & seconds)	8 508/01-
LATITUDE (degrees, minutes, & seconds)				LONGITO	T	3 4	0	
65 66 67 68 69 - 71				72	- 74	75 76 77	- 79	
VIII. FACILITY OWNER A. If the facility owner is also the facility operator as li	stad in Cost	ion VIII on	Form 1 "Con	aral Informs	tion" plac	n an "Y" i	n the boy to the l	oft and
skip to Section IX below.	sted in Sect	ion viii on	FORM 1, Gene	erai inionna	ition , plac	e dii A	II the box to the R	sit and
B. If the facility owner is not the facility operator as li	sted in Sect	ion VIII on I	Form 1, compl	ete the foll	owing item	is:		
1. NAME OF FACIL	ITY'S LEG	AL OWNER				2. P	HONE NO. (area o	ode & no.)
E Allied Finishing, Inc.						6 1	6 - 6 9 8 -	7 5 5 6
3. STREET OR P.O. BOX			4. CITY OR T	OWN		55 56 - 5.ST.	58 59 - 61 6. ZIP CO	62 - 6 DE
F 4100 Broadmoor S.E.	G	Grand	Rapids			мі	4 9 5 0	8
IX. OWNER CERTIFICATION	45 15 1		AND IN	STATE OF THE STATE OF	AV 15 A	41 42	47 -	
I certify under penalty of law that I have personally								
documents, and that based on my inquiry of those in submitted information is true, accurate, and complet								
including the possibility of fine and imprisonment.								
A. NAME (print or type)	B. SIGNA	JURE /	VI 1.			C. DATI	ESIGNED	
Robert W. Corl, Jr., President	X	ell	lor.	1		3-	2-82	
X, OPERATOR CERTIFICATION			THE PARTY	-				
I certify under penalty of law that I have personally documents, and that based on my inquiry of those in submitted information is true, accurate, and complet including the possibility of fine and imprisonment.	idividuals i	immediatel	y responsible	e for obtain	ning the i	nformatio	on, I believe that	the
A. NAME (print or type)	B. SIGNA	TURE				C. DAT	ESIGNED	
The Court of the C								

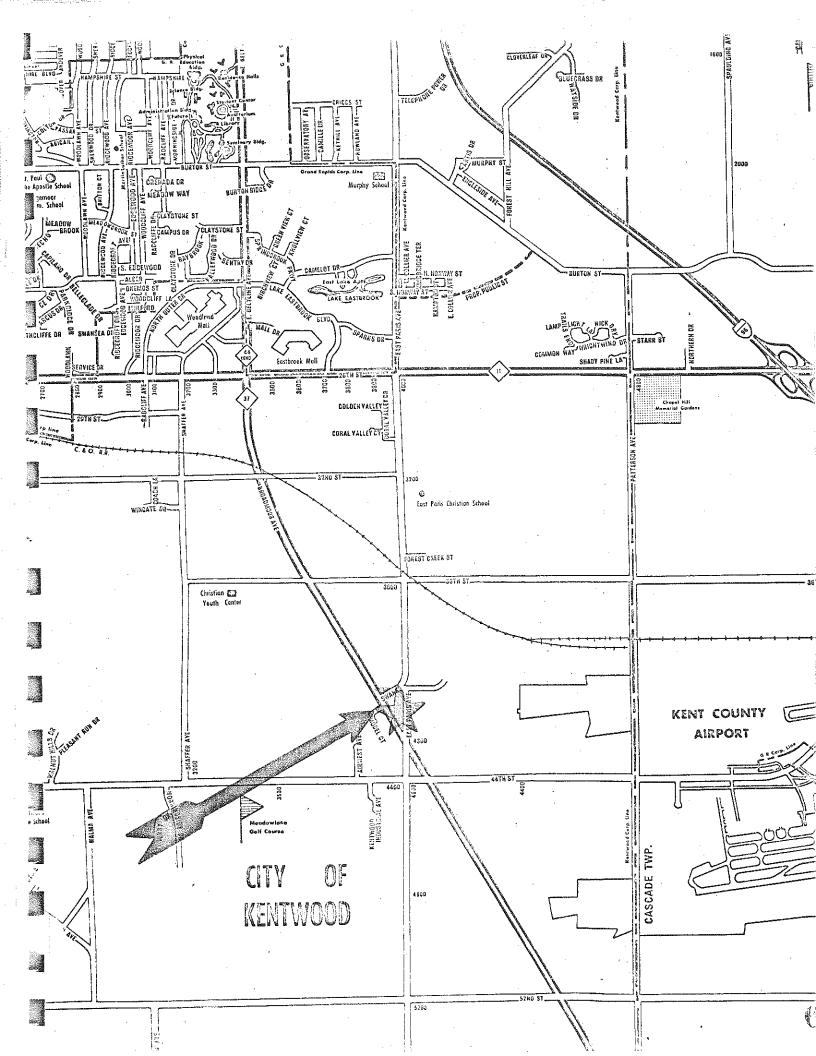
V. FACILITY DRAWING (see page 4)

Note: Diagrams attached.



MILE ₽:0!S!VIQ (131) Northville Plainfield Comstac Park 4 MILE RD ٠.0 96 3 MILE RD Comstock Riverside Park (98) KNAPP ANN ST GRAND NAPIDS Blanford (296) Richmond Nature Center Hills Park LEONARD LÉONARD Grand Rapids Kent Community Hospital Horticulturat Belknap Park Experiment Highland Station 196 MICHIGAN MICHIGAN Hall of Justice-(65) Davenport FULTON John Ball Park Aquinas __/ College Art Galler) Hogdenpyl O'BRIEN Walker East Grand Rapids Indian Calvin College BURTON Garfield Park Pinery Park 28Th ST Wyoming $\stackrel{>}{\sim}$ Grandville (E) Linus C Paimer Park (37)52ND = Puller Appraisals =

19



WASTE TREATMENT OUTLINE

Waste treatment is performed on a continual flow through basis, one basic system with individual stages for low Ph or high Ph wastes with a total design capacity of fifty gallons per minute.

(Alkaline) High Ph wastes, bearing E.P. Toxics, P030, P029, P106.

Rinses bearing these wastes flow into pretreatment pit under system in its respective side. At this point waste is pumped through treatment and alkaline chlorination to oxidation with metal hydroxide precipitation occouring, at maximum rate of twenty-five gallons per minute, then flowing into Ph adjustment tank, mixing with lower Ph nickel and chrome treatment being pumped into clarifier to precipitate followed by filter press dewatering sludge to a 30% solid, being stored in 15 cubic yard dumpster waiting for commercial waste hauler.

(Acid) Low Ph wastes, bearing E.P. Toxics D002, D007, including nickel and acid copper rinses.

Chromium rinses are concentrated by corning evaporator recovery system concentrating rinses for reuse in plating bath.

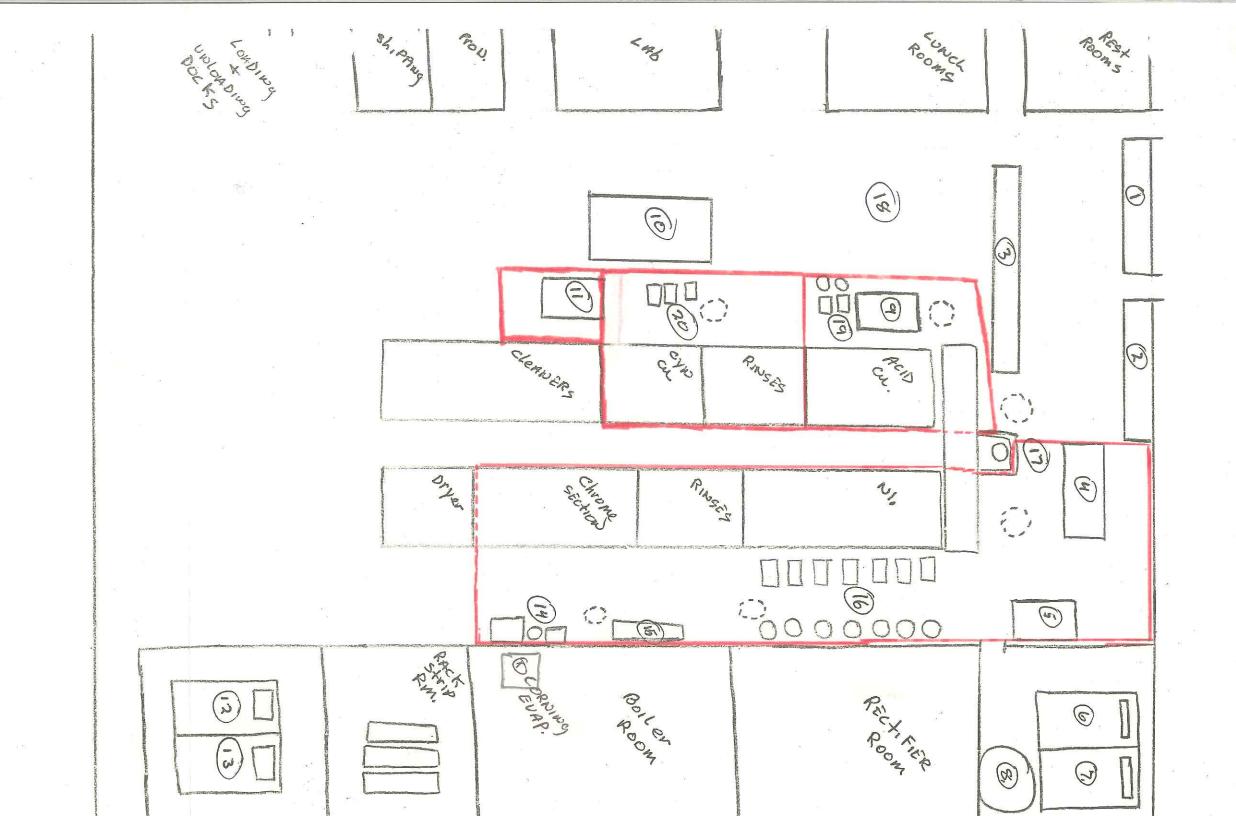
Rinses bearing chromium along with all other toxics above flow into pretreatment pit under system in its respective side. At this point waste is pumped through treatment where hexivalent chromium is reduced to trivalent in a low Ph medium followed by nickel reduction in high Ph medium with subsequent precipitation of metal hydroxides at a maximum rate of twenty-five gallons per minute, then flowing into Ph adjustment tank mixing with higher Ph treated alkaline side, then pumped into clarifier to precipitate, followed by filter press dewatering sludge to a 30% solid. All waters subsequently treated flow into outfall flowing to municipal water treatment.

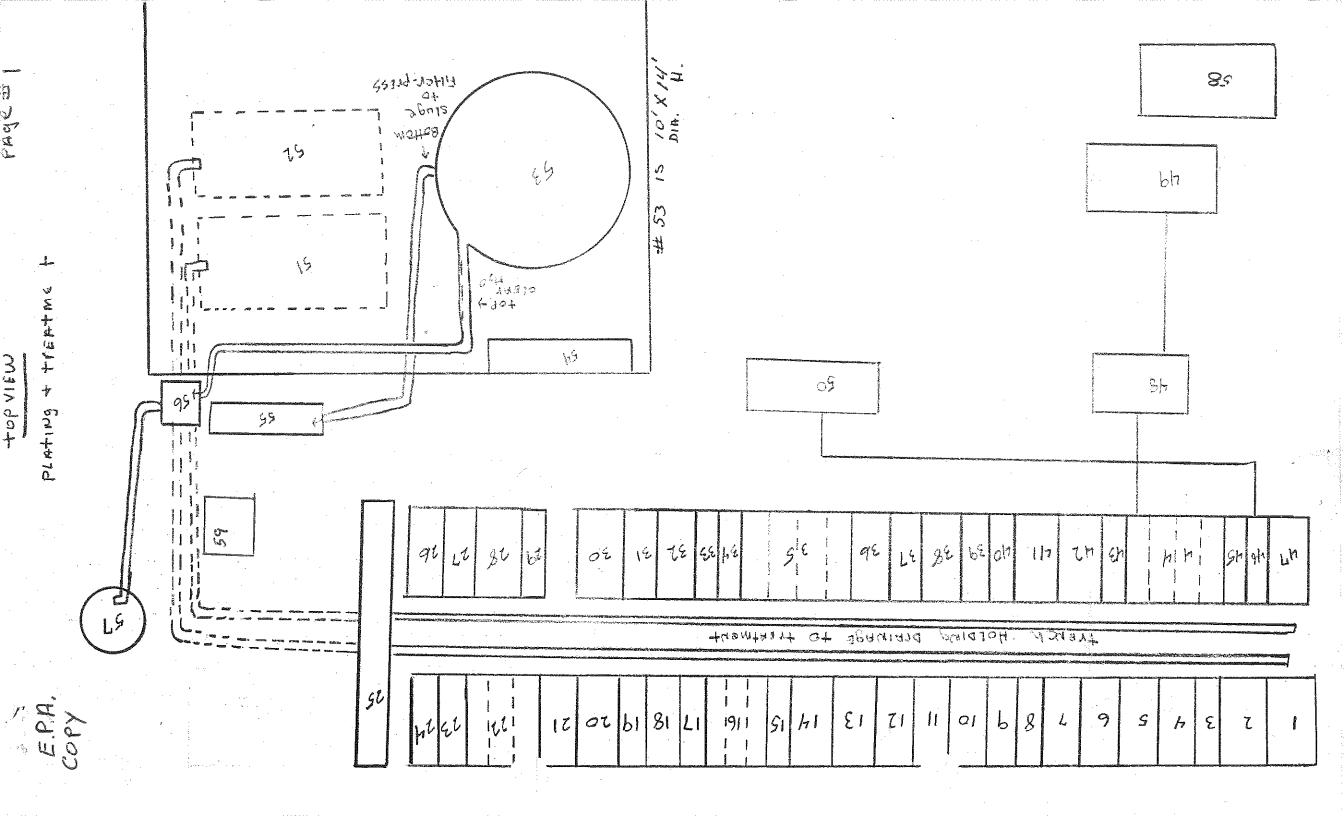


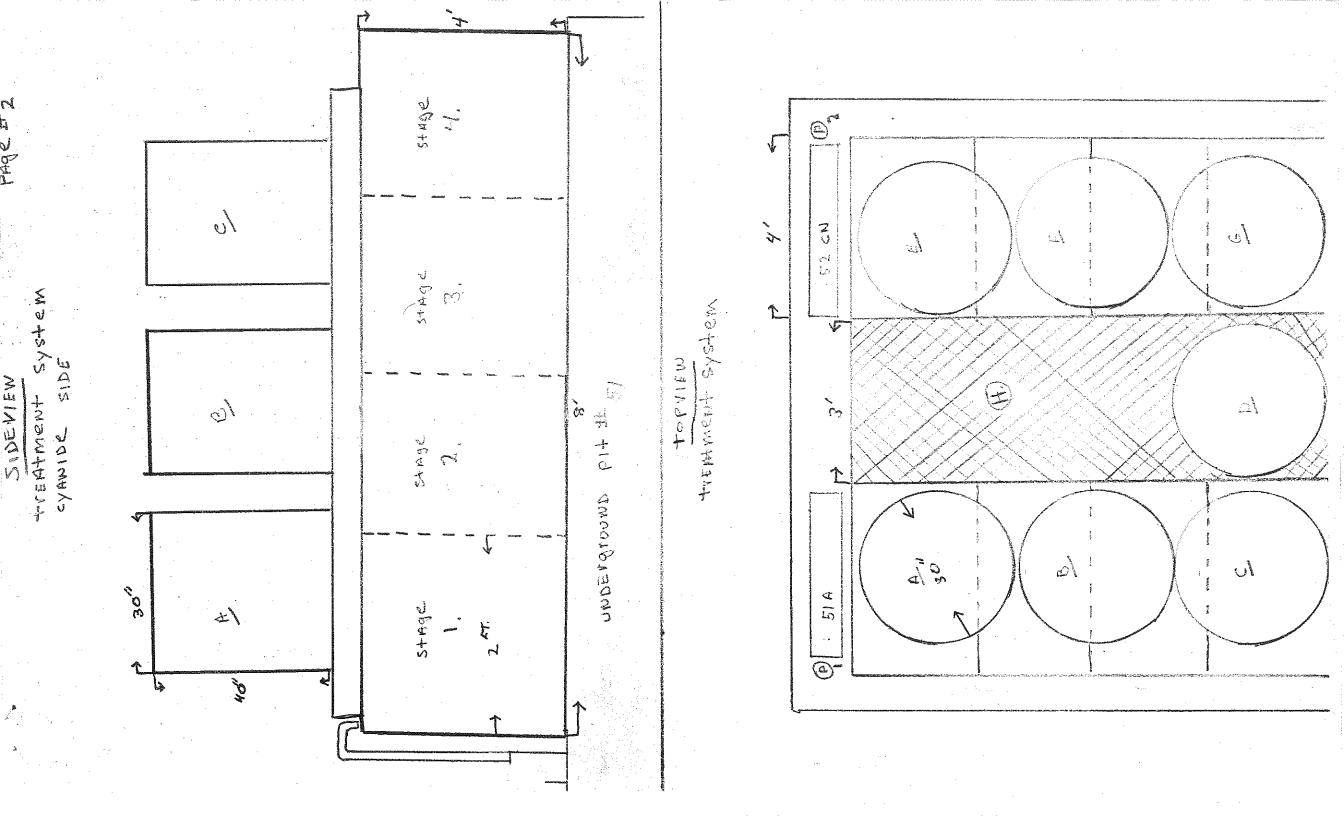
DIAGRAM KEY

Diagram No. III.

- 1. Tri-level storage
- 2. Tri-level storage
- 3. Tri-level storage
- 4. Final polishing tank before outfall.
- 5. Nickel storage
- 6. Subgrade cyanided treatment pit
- 7. Subgrade acid & nickel & chrome treatment pit.
- 8. Ongrade clarifier
- 9. Ongrade acid-copper storage
- 10. Dry cyanide enclosed storage
- 11. Elevated cyanide storage tank
- 12. Subgrade cyanide pre-treatment holding pit.
- 13. Subgrade acid & nickel & chrome pre-treatment holding pit.
- 14. Chrome cation filter & holding tanks.
- 15. Cation & D.I. water pre-treatment holding tank.
- 16. Nickel filter & brightner tanks section.
- 17. Final outfall to city.
- 18. Additional chemical storage area.
- 19. Acid copper filters & brightner tanks.
- 20. Cyanide copper filters.
- 21. Nitric acid strip.
- 22. (note:) Retaining walls in RED







I 59 NEW. POLISHING THINK

Page # 1. PLATING + TVEATMENT

1. SOAK - Primary

3, spray wash 4. SECONDARY SOAK

5, ELECTYO-CLEANER

6, ELECTRO - CLEANER

7 ELECTIO - CLEANER

3. RIWSE TANK

9. DIE-CAST ACID

10. MURIATIC ACID

11. RINSE TANK

12. copper strike-

13. Bright copper

14. Bright copper

15. copper RECLAIM

16 BAY RINGE

17, ELECTRO- CLEANER

8 RINSE TANK

19. RINSE TANK

20. Bright Acid copper 21. Bright ACID copper

72. 3-BAY RINSE

23. MURINTIC ACID

24 RINS HAWK

126. SEMI - Bright NickEL

27. SEMI-Bright Wichel

28 SEMI - Bright NICKEL

29. SEMI-Bright NICKEL

130. Bright NickEL

131. Bright - NICKEL 32 . Bright - NickeL

133. DURNI - Nickel

34. SPRAY RIWSE

35. 4-BAY RINSE

136. chrome strip

137. RINSE TANK 38. Storage

39, REPLATE ACID

40. RINSE TANK

41. Chrome Plating Tk,

42 . chrome PLATING TK.

43 CHYOME RECLAIM

44. 4-BAY RINSE

45, 420 Shed RINGE

46. D. I. RINGE

47. DryER

48. CATION EXCHANGE - Cros

49. Corning Evaporator- Cros

50. DEIONIZER UNIT

51. UNDERGROUND CN. PIT.

52. UNDERGROUND ACID PIT. 53. CLAPIFIER

154. computer control

55. Stuge Filter Press

56. OUTFALL HOLDING CHEC 57. MANHOLE OUTFALL.

58. Pretventment At

PAGE # 2, treatment system CYANIDE SIDE.

A.) LIGUID CHUSTIC SODA

B.) CHLOTING BLEACH

C.) SULFURIC ACID

1. INJECTED CAUSTIC AND BLEACH.

2. Overtion Mix

3. INJECTED BLEACH ALID + POLYMER

4. FINAL STAGE to Surge +ANK,

P) SUMP PUMP From CN PIT # 51 to STAGE I. TANK OF TrEATMENT,

TOPVIEW treatment system.

A) Liquid CAUSTIC SODA

B.) CHLOTINE BLEACH

C.) SULFUTIC ACID

D.) Polymer

E.) SUIFUTIC ACID

F.) SODIUM BISULFITE

G) LIGUID CAUSTIC SODA

SIDEVIEW

treatment system ACID SIDE.

PICTURED PARTIALLY ON TOPVIEW.

E.) Sulfuric ACID

F.) SODIUM BISULFITE

E.) LIQUID CAUSTIC SODA

I INJECTED SULFUTIC AND BISULFITE

2, OVERFLOWS MIX

13. INTECTED CHUSTIC AND POLYMER

14, FINAL STAGE to surge

P) SUMP PUMP From Ac10 pit # 52 to STAGE I OF WEATMENT,

H.) Surge +ANK. HOLDS treAteD waste to be pumped to the CLAVIFIER where clear water FLOWS OFF top to OUTFALL # 57 AND SETTLED SLUGE IS PUMPED to FILTER PRESS WHERE WET - SOLID

FILTER CAKE IS HAULED to

Dumpster walting For Industrial ste Hauler

E.P.A. COPY

EVALUATION OF THE EP TOXICITY TEST

OF

PLATING SLUDGE FILTER CAKE

FOR

ALLIED FINISHING

GRAND RAPIDS, MICHIGAN

MARCH 26, 1981

By: Western Michigan Environmental Services, Inc. (ESI) 146 South River Avenue Holland, Michigan 49423 616-396-1209

PURPOSE

The purpose of this study was to evaluate the plating sludge filter cake generated by Allied Finishing, Inc., Grand Rapids, Michigan, to determine the nature of its constituents for waste disposal. This evaluation will define the possible classification of a suitable disposal method in accordance with the criteria set forth in the Monday, May 19, 1980, Federal Register, Volume 45, Number 98, 40 CFR Part 261.24, Characteristics of EP Toxicity, Appendix II to that subpart and the Michigan Department of Natural Resources (DNR) Act No. 64 of the Public Acts of 1979.

PARAMETER AND TEST METHOD SELECTION

The method selected was EP Toxicity Test. The parameter list and method selected were presented to ESI by Michael Smith of Allied Finishing in coordination with Mr. R. Waybrant of the Office of Hazardous Waste Management, Lansing, Michigan.

WESTERN MICHIGAN ENVIRONMENTAL SERVICES, INC.

PROCEDURE

The plating sludge filter cake was prepared for analysis by the procedure of the Environmental Protection Agency (EPA) <u>Test Methods</u> for Evaluating Solid Waste, Volume I, Physical/ Chemical Methods, May, 1980, pp 7.5-2 to 7.5-6.

The equipment utilized was an ESI EP Toxicity solid waste rotary extractor operating at 29 rpm for twenty-four (24) hours as specified by the procedure. A 110.2 g sample and 1763.2 ml of deionized water were placed in a one gallon (4 liter) glass container.

During the extraction period 440.8 ml of 0.5N acetic acid were added. The solid was separated from the liquid phase by filtration through a 0.45 μm filter. The resulting filtrate was then analyzed for the parameters listed on the Table of Results.

The analytical procedures and/or instruments utilized were as follows:

STANDARD PROCEDURES FOR ALL AQUEOUS SAMPLES

Solids, All Forms

Jyanide

Metals, General

Arsenic

Barium

Cadmium

Chromium

Copper

Lead

Mercury

Selenium

ilver

Zinc

ASTM Method D1888 and Standard Methods Part 208. EPA Method 335.1.

ASTM Method D2576 and Standard Methods Part 301A utilizing a Jarrell-Ash Model 850 Atomic Absorption Spectrophotometer (dual beam with D₂ background correction).

ASTM Method D2972 Method A.

Standard Methods Part 303A.

ASTM Method D3557 and Standard Methods Part 305A.

ASTM Method D1687 and Standard Methods Part 307A.

ASTM Method D1688 and Standard Methods Part 308.

ASTM Method D3559 and Standard Methods Part 311A.

Cold Vapor Procedure, ASTM Method D3223 and Standard Methods Part 315.

Colorimetric Procedure utilizing a Hitachi Model 100-60 dual beam UV-vis spectrophotometer. ASTM Method D3081 and Standard Methods Part 318.

Standard Methods Part 319.

ASTM Method D1691 and Standard Methods Part 323A.

DESCRIPTION

The plating sludge filter cake sample was aqua blue, black and green chunks. The texture was that of clay in stratified layers; usually blue on the outside layers, black and green on the inside layers. The sample was easily broken apart.

The sample was prepared for analysis, weighed out and put into the extraction vessel, the initial pH was 9.0; 440.8 ml of 0.5N acetic acid were added during the monitoring period. The amount of acetic acid added was the maximum allowable for the EP Toxicity test; therefore, the pH remained above 5.0, the final pH was 5.7. At the end of the extraction period the sample was filtered through a 0.45 um filter.

The original sample contained 24.0% total solids, of which 25.0% were volatile and 75.0% were ash.

TABLE OF RESULTS

Leachate concentrations of plating sludge filter cake waste All results expressed as milligrams per liter (mg/l).

PARAMETER	CONCENTRATION	MAXIMUM	CONCENTRATION
		EPA	DNR
Arsenic	<0.03	5.0	5.0
Barium	1.3	100.0	100.0
Cadmium	0.02	1.0	1.0
Copper	831.6	emp divit Alla	100
Chromium	0.4	5.0	5.0
Cyanide	<0.03	tion wild distr	20
Lead	0.13	5.0	5.0
Mercury	0.004	0.2	0.2
Selenium	<0.03	1.0	1.0
Silver	<0.01	5.0	5.0
Zinc	70.0	. MOT MAN MOST	500.0

COMMENTS

The plating sludge filter cake waste according to DNR regulations has exceeded maximum Copper concentration allowable and, therefore, might be classified as hazardous.

TO:

Allied Finishing Company 4100 Broadmoor, S.E.

Grand Rapids, Michigan 49508

Attn: Mike Smith

AUG 1 0 1981

ALLIED FINISHING

RECEIVED

DATE:

August 6, 1981

ANALYSIS

of sludge cake

CERTIFIED BY:

Director of Laboratories

SAMPLING DATE:

Received from client on July 21, 1981

RESULTS:

Expressed as milligrams per kilograms of sample.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
810734	Sludge Cake	Total Solids	246,900
		Volatile Solids	58,300
		Ash	188,600
		Cyanide	170
	•	Metals:	
		Arsenic	<0.68
•		Barium	11.9
		Cadmium	0.59
		Chromium	16.8
		Copper	42,500
		Lead	19.0
	in the first of the second second Second second	Mercury	0.075
		Selenium	<0.42
		Silver	1.64
		Zinc	1,977

in the



WATER · WASTEWATER · BIOLOGICAL STUDIES ORGANICS · TOXIC SUBSTANCE ANALYSIS TREATABILITY STUDIES · ENVIR. EVALUATIONS

ANALYTICAL SERVICES

PROJECT:	Allied Fi	nishing		ATE SAMPLE			
JOB # :	25052		D	ATE RECEIVE	ED: 7/2	0/81 TIN	ME: 3 PM
SAMPLING LOCATIC			·	ATE COMPLI	ETED:	8/17	7/81
SAMPLED BY:	gan Melanakan manakan kanan kana						
SAMPLE DESCRIPTION	ON:Filt	er Cake		NALYST:	The second secon		-windows
	ESPA-MA PARA		· .	QUALITY CON	ITROL REVI	EW BY:	OMF'
COMMENTS:							
				essas anno anno anno anno anno anno anno 	and the second s		· · · · · · · · · · · · · · · · · · ·
						*. *	
				, .		DATE OF ANALYSIS	DL
EDI SAMPLE NO.	19445		·	RECEIVED			
			A	JG 28 1981		man da sa de la composição de la composi	Varrent Alia (Alia Della Alia Alia Alia Alia Alia Alia Alia A
Arsenic	1.6 µg/kg		. Al	IED FINISHIN	G	8/6/81	40. μg/kg
Barium	18 mg/kg					8/4/81	2.0 mg/kg
Cadmium	<0.40 mg/kg					8/5/81	0.40 mg/kg
Chromium	3200 mg/kg			CANADA (Anna Anna Anna Anna Anna Anna Anna An		8/5/81	0.40 mg/kg
Cyanide, Total	80 mg/kg					7/23/81	4.5 mg/kg
Lead	19 mg/kg		Nonecological description of the state of th		อะเดอเกอะเลกีตาม ออกเทาและโดกการโดยให้โลกการและเลยเลยเลย	8/5/81	0.40 mg/kg
Mercury	<100 µg⁄kg	and the control of the building of the control of t		and discourance of a management of the control of t	yenye di wilalaya mahasilik 1500 diya di di 650 dila wilanci sanaki kansasa sanaki kansasa sanaki kansasa sana	8/7/81	100 μg/kg
Selenium	<0.5 mg/kg					8/17/81	0.5 mg/kg
Silver	0.08 mg/kg			·		8/14/81	0.04 mg/kg
Control of the Contro					with the state of		

Analysis by Standard Methods, 14th Edition, and/or Methods for Chemical Analysis of Water and Wastes. EPA, 1979.

TO:

Allied Finishing 4100 Broadmoor, S.E.

Attn: Jim Van Aman

Grand Rapids, Michigan

RECEIVED

AUG 23 1980

ALLIED FINISHING

DATE:

August 22, 1980

ANALYSIS

of Various Wastes

CERTIFIED BY:

William H. Bouma, Ph.D., Director of Laboratories

SAMPLING DATE:

Received on August 11, 1980

RESULTS:

All expressed in relation to total sample

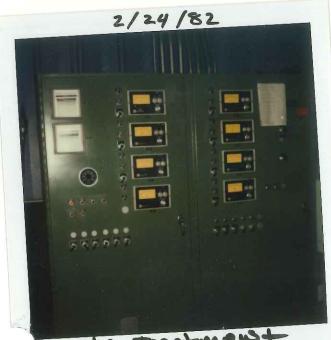
ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
800814-1	CuCN waste	Cyanide mg/kg Copper mg/kg	75,000 mg/kg 44,420 mg/kg
-2	Filter Cake	Total Solids Chromium Copper Nickel	216,000 mg/kg 3,000 mg/kg 57,000 mg/kg 34,000 mg/kg
-3	Rack Stripping Solution	Chromium Copper Nickel	12.6 mg/1 850 mg/1 26,050 mg/1

cc: Fred Rosema

8/25/80 Copy run 1/29



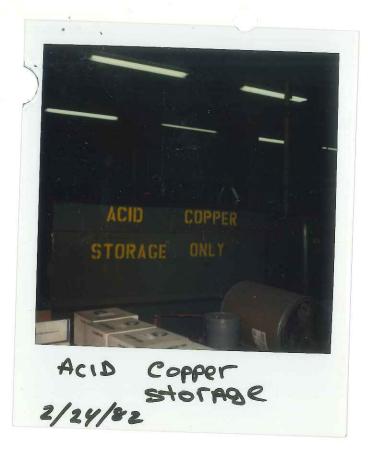
ch copper Storage 2/24/82

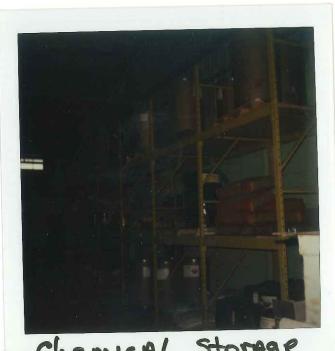


waste treatment CONTROL PANEL



Reduction & Reduction





Chemical Storage



MITTIC RACK STOP ROOM W/ FUME 2/24/82 Scrubber



Filter CAKE Dumpster 2/24/82



TYANIDE STORAGE
FULLY CLOSED BID
2/24/82



treatment system 2/24/82



CLATIFIER FOR WASTE Treptment



who exchange unit which to exchange the for evaporator



Plating line 2/24/82

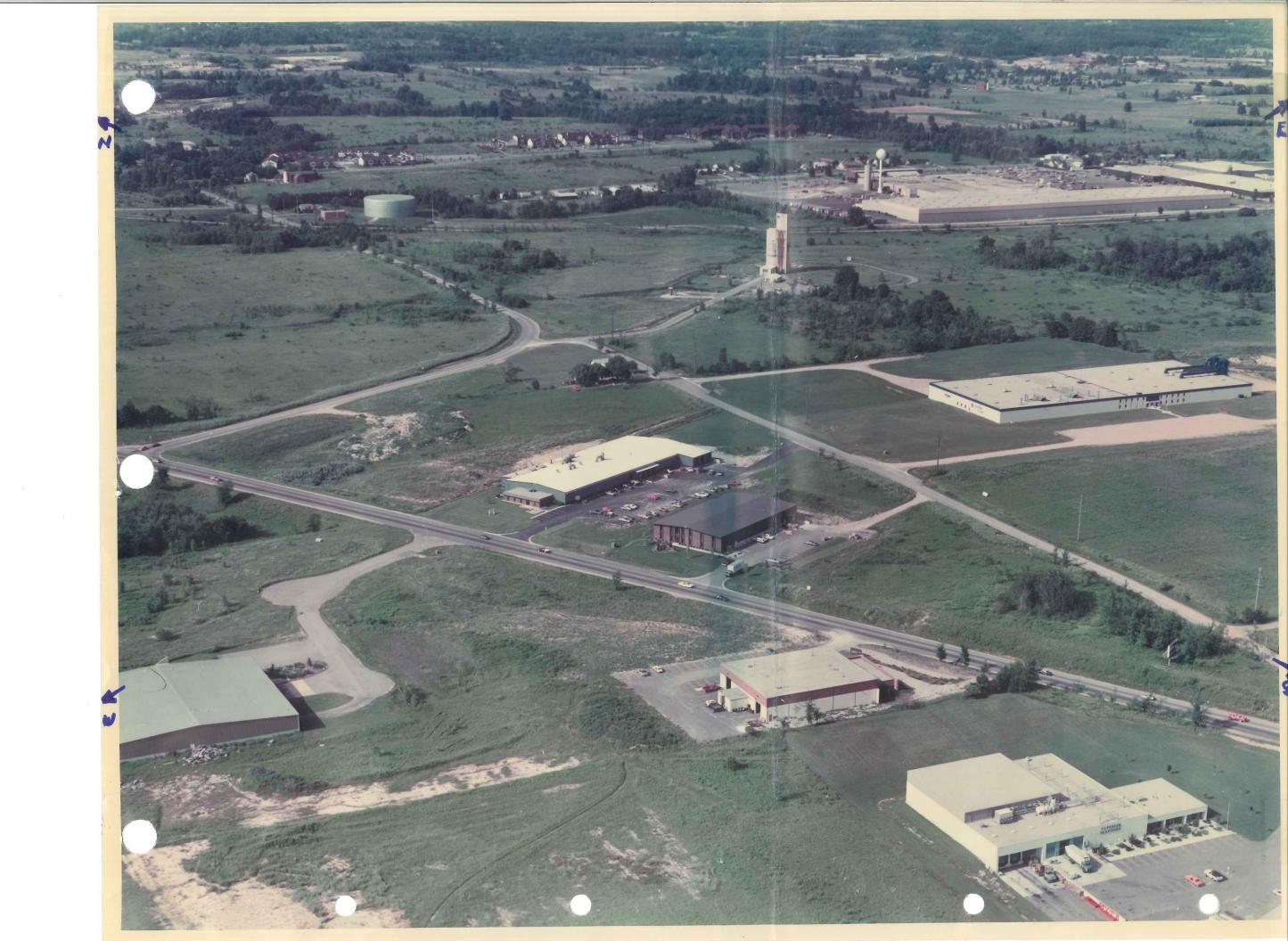


D. I. WATER UNIT W/ Blowbown tank, used For Pretreatment.



UNDERGROUND
PRETROATMENT PITS.
(I ALKALINE) (I ACID)

2/24/82



AERO-ART PHOTO STUDIOS 709 LYUN ST. NE GRAND RAPIDW, MI, 49503

RECEIVED

JUL 29 1981

ALLIED EINISHING

ALLIED FINISHING INCORPORATED 4100 BROADMOOR ST SE GRAND RAPIDS, MI 49508

Aerial views of this firm, at geographic location 42 degrees, 55 minutes north latitude, & 84 degrees 34 minutes west longitude.

Views include 1 11 X 14 print for directional, road network, and surrounding terrain reference only (colour cast may not be accurate), & 4 8X 10 prints of facility covering all four sides of building, property boundaries, and lot lay-Viewing under bright incandescent light will reveal details best. Flourout.

escent lighting is o.k. but true colours may shift slightly. Photographs were taken Thursday, July 23rd, 1981, at 6:00 P.M. From an altitude of 800 ft. using a Honeywell Pentax 6 X 7 cm SLR camera throgh a 105 mm Takumar SMC lens f5.6 @ 17500 sec on Kodacolor ll film, no filter - printed on Kodak 78 RC Ektacolor paper

> Thank You Raymond D Kuzee

__\$ 100.00 Retainer ---1 11 X 14 print-----4 8 X 10 prints @ \$ 10.00 ea---- \$ 40.00 \$ 160.00 Total